

**Notice of Allowability**

Application No.

10/715,770

Examiner

Yasin M. Barqadle

Applicant(s)

D'ANGELO ET AL.

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 11/17/2003.
2. ☒ The allowed claim(s) is/are 1-5, 7-15, 17-25 and 27-30.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All b) ☐ Some\* c) ☐ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date 11/17/2003
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other

  
**GLENON B. BURGESS**  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2100

**Examiner's Amendment**

1. An examiner's amendment to the record is attached. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

2. Authorization for this examiner's amendment was given in a telephone interview with Mr. Greg Plow (Reg. 43,005) On August 28, 2007.

**3. In the claims:**

Please cancel claims 6, 16 and 26

Please amend claims 1,9,11,19,21 and 29 as attached.

**Allowable Subject Matter**

- Claims 1-5,7-15,17-25 and 27-30 are allowed.

**Reason for Allowance**

4. The following is an examiner's statement of reasons for allowance: None of the prior art taken singularly or in combination reasonably teaches or suggests the combined functional limitations directed to a method, system and article of manufacture for routing messages over a computer network comprising a plurality of DBMS systems, said method comprising the steps of: receiving a message in a first form for communicating with a first DBMS wherein said first form comprises an internet message prefix and a data portion, and wherein said internet message prefix comprises routing information for a client; modifying said message into a second form wherein said routing information is integrated into said data portion of said message and wherein said second form of said message is utilized to communicate with a second DBMS; receiving a result message generated by said second DBMS wherein said result message comprises a result data portion and wherein said result data portion includes said routing information; and modifying said result message to said first form wherein said result message excludes said routing information from said result data portion and further comprises said internet message prefix, said internet message prefix comprising said routing

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information obtained from said result data portion, whereby said result message is routed to said client.

### **Conclusion**

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yasin Barqadle whose telephone number is 571-272-3947. The examiner can normally be reached on 9:00 AM to 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenn Burgess can be reached on 571-272-3949. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9306 for regular communications and 703-746-7238 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either private PAIR or public PAIR system. Status information for unpublished applications is available

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through private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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## CLAIMS

What is claimed:

1. (currentl amended) A method for routing messages over a computer network comprising a plurality of DBMS systems, said method comprising the steps of:

receiving a message in a first form for communicating with a first DBMS wherein said first form comprises an internet message prefix and a data portion, and wherein said internet message prefix comprises routing information for a client;

modifying said message into a second form wherein said routing information is integrated into said data portion of said message and wherein said second form of said message is utilized to communicate with a second DBMS;

receiving a result message generated by said second DBMS wherein said result message comprises a result data portion and wherein said result data portion includes said routing information; and

modifying said result message to said first form wherein said result message excludes said routing information from said result data portion and further comprises said internet message prefix, ~~and wherein said internet message prefix comprises~~ said routing information obtained from said result data portion,

whereby said result message is~~may be~~ routed to said client.

2. The method of claim 1 wherein said first DBMS and said second DBMS are heterogeneous.

3. The method of claim 2 wherein said first DBMS is IMS and said second DBMS is non-IMS.
4. The method of claim 1 wherein said communications to said first DBMS and said second DBMS utilize a TCP/IP protocol.
5. The method of claim 1 wherein said communications to said second DBMS utilize a SNA based protocol.
6. (cancelled) ~~The method of claim 1 wherein said modifying of said result message includes removing said routing information from said result data portion.~~
7. The method of claim 1 wherein said modifying of said message is performed by an exit routine invoked by said first DBMS.
8. The method of claim 1 wherein said modifying of said message is performed by a middleware component.
9. (currentl amended) The method of claim 16 wherein said modifying of said result message is performed by one or more exit routines invoked by said first DBMS.



10. The method of claim 1 wherein said data portion of said second form of said message includes a Z2 indicia signifying that said data portion of said second form of said message contains said routing information.

11. (currentl amended)A system for routing messages over a computer network comprising a plurality of DBMS systems, said system comprising:

a computer;

means for receiving a message in a first form for communicating with a first DBMS wherein said first form comprises an internet message prefix and a data portion, and wherein said internet message prefix comprises routing information for a client;

means for modifying said message into a second form wherein said routing information is integrated into said data portion of said message and wherein said second form of said message is utilized to communicate with a second DBMS;

means for receiving a result message generated by said second DBMS wherein said result message comprises a result data portion and wherein said result data portion includes said routing information; and

means for modifying said result message to said first

form wherein said result message excludes said routing information from said result data portion and further comprises said internet message prefix, ~~and wherein said internet message prefix comprises~~ said routing information obtained from said result data portion, whereby said result message is ~~may be~~ routed to said client.

12. The system of claim 11 wherein said first DBMS and said second DBMS are heterogeneous.

13. The system of claim 12 wherein said first DBMS is IMS and said second DBMS is non-IMS.

14. The system of claim 11 wherein said communications to said first DBMS and said second DBMS utilize a TCP/IP protocol.

15. The system of claim 11 wherein said communications to said second DBMS utilize a SNA based protocol.

16. (cancelled) ~~The system of claim 11 wherein said modifying of said result message includes removing said routing information from said result data portion.~~

17. The system of claim 11 wherein said modifying of said message is performed by an exit routine invoked by said first DBMS.
18. The system of claim 11 wherein said modifying of said message is performed by a middleware component.
19. (currentl amended) The system of claim 11<sup>6</sup> wherein said modifying of said result message is performed by one or more exit routines invoked by said first DBMS.
20. The system of claim 11 wherein said data portion of said second form of said message includes a Z2 indicia signifying that said data portion of said second form of said message contains said routing information.

21. (currentl amended)An article of manufacture comprising palpable physical media for use in a computer system tangibly embodying computer instructions executable by said computer system to perform process steps for routing messages over a computer network comprising a plurality of DBMS systems, said process steps comprising:

receiving a message in a first form for communicating with a first DBMS wherein said first form comprises an internet message prefix and a data portion, and wherein said internet message prefix comprises routing information for a client;

modifying said message into a second form wherein said routing information is integrated into said data portion of said message and wherein said second form of said message is utilized to communicate with a second DBMS;

receiving a result message generated by said second DBMS wherein said result message comprises a result data portion and wherein said result data portion includes said routing information; and

modifying said result message to said first form wherein said result message excludes said routing information from said result data portion and further comprises said internet message prefix, ~~and wherein said~~ internet message prefix comprisinges said routing

information obtained from said result data portion,  
whereby said result message is~~may be~~ routed to said  
client.

22. The article of manufacture of claim 21 wherein said  
first DBMS and said second DBMS are heterogeneous.

23. The article of manufacture of claim 22 wherein said  
first DBMS is IMS and said second DBMS is non-IMS.

24. The article of manufacture method of claim 21 wherein  
said communications to said first DBMS and said second  
DBMS utilize a TCP/IP protocol.

25. The article of manufacture of claim 21 wherein said  
communications to said second DBMS utilize a SNA based  
protocol.

26. (cancelled) ~~The article of manufacture of claim 21  
wherein said modifying of said result message includes  
removing said routing information from said result data  
portion.~~

27. The article of manufacture of claim 21 wherein said

modifying of said message is performed by an exit routine invoked by said first DBMS.

28. The article of manufacture of claim 21 wherein said modifying of said message is performed by a middleware component.

29. (currentl amended)The article of manufacture of claim 21 wherein said modifying of said result message is performed by one or more exit routines invoked by said first DBMS.

30. The article of manufacture of claim 21 wherein said data portion of said second form of said message includes a Z2 indicia signifying that said data portion of said second form of said message contains said routing information.